

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number
WO 2005/072898 A1

(51) International Patent Classification⁷: **B23C 5/22 //**
B23B 27/16

(21) International Application Number:
PCT/SE2005/000104

(22) International Filing Date: 28 January 2005 (28.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0400183-0 30 January 2004 (30.01.2004) SE

(71) Applicant (for all designated States except US): SAND-
VIK AB [SE/SE]; S-811 81 Sandviken (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): PANTZAR, Göran
[SE/SE]; Sörbyvägen 41, S-810 22 Årsunda (SE).

(74) Agent: KLÖFVER, Jörgen; Sandvik AB, Intellectual
Property, S-811 81 Sandviken (SE).

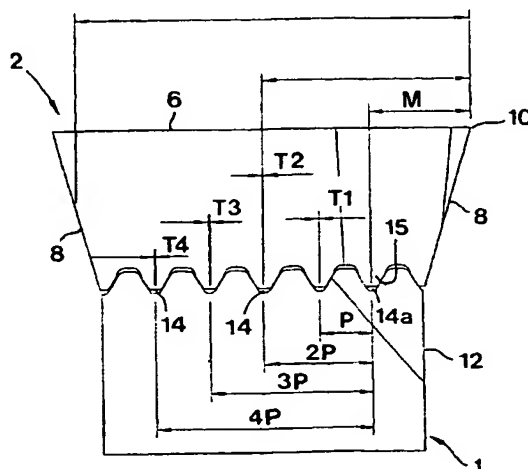
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: A CUTTING TOOL AND A TOOL PART WITH CONNECTING SURFACES WITH GROOVES AND A METHOD
FOR MANUFACTURING OF THE TOOL PART



(57) Abstract: The invention relates to a cutting tool of the type that comprises two parts (1, 2) having co-operating connecting surfaces of serration type, which individually include a plurality of ridges or tops (13, 15), which are mutually separated by grooves (14, 16), the pitch (P) between the ridges in the respective connecting surfaces being one and the same. According to the invention, the widths of two or more grooves (14) positioned one after the other in a series in one of the connecting surfaces increase progressively from a first groove (14a) to a last groove (14) in the series. Furthermore, the invention relates to a tool part as such, as well as a method in the manufacture of such tool parts.

WO 2005/072898 A1